

02/25/2005

10/785,447

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FILE 'WPIX, INPADOC, JAPIO' ENTERED AT 15:14:43 ON 25 FEB 2005
E DE2003-10307814/AP,PRN

L1 6 S E3-E4

EIC2800

Irina Speckhard

571 272 25 54

L1 ANSWER 1 OF 6 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
 AN 2004-680242 [67] WPIX
 DNN N2004-539254
 TI Flat-type gradient magnetic field coil for nuclear-spin tomography apparatus, has circular vortex whose inner conductor lead is arranged at exterior of support plate supporting winding board.
 DC P31 S01 S03 S05 V02
 IN VOM ENDT, A; ENDT, A V
 PA (SIEI) SIEMENS AG; (ENDT-I) ENDT A V
 CYC 6
 PI JP 2004255182 A 20040916 (200467)* 9
 GB 2400913 A 20041027 (200470)
 DE 10307814 A1 20041125 (200477)
 US 2004227516 A1 20041118 (200477)
 CN 1525191 A 20040901 (200478)
 KR 2004076221 A 20040831 (200504)
 ADT JP 2004255182 A JP 2004-45840 20040223; GB 2400913 A GB 2004-3962 20040223; DE 10307814 A1 DE 2003-10307814 20030224; US 2004227516 A1 US 2004-785447 20040224; CN 1525191 A CN 2004-6000 20040224; KR 2004076221 A KR 2004-12221 20040224
 PRAI DE 2003-10307814 20030224
 AB JP2004255182 A UPAB: 20041019
 NOVELTY - A winding board (W) has circular vortex (2) whose inner conductor lead (X) is arranged at the exterior of a support plate supporting the winding board.
 DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for flat-type gradient magnetic field coil manufacturing method.
 USE - For nuclear-spin tomography apparatus used in field of medical treatment and biophysics.
 ADVANTAGE - Simplifies the structure of gradient magnetic field coil effectively.
 DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the flat-type gradient magnetic field coil.
 circular vortex 2
 shallow groove 3
 outer conductor lead 6
 winding board W
 inner conductor lead X
 Dwg.1a/4
 AN 2004-680242 [67] WPIX
 DNN N2004-539254
 TI Flat-type gradient magnetic field coil for nuclear-spin tomography apparatus, has circular vortex whose inner conductor lead is arranged at exterior of support plate supporting winding board.
 DC P31 S01 S03 S05 V02
 IN VOM ENDT, A; ENDT, A V
 PA (SIEI) SIEMENS AG; (ENDT-I) ENDT A V
 CYC 6
 PI JP 2004255182 A 20040916 (200467)* 9 A61B005-055
 GB 2400913 A 20041027 (200470) G01R033-385
 DE 10307814 A1 20041125 (200477) G01R033-385
 US 2004227516 A1 20041118 (200477) G01V003-00
 CN 1525191 A 20040901 (200478) G01R033-38
 KR 2004076221 A 20040831 (200504) H01F005-02
 ADT JP 2004255182 A JP 2004-45840 20040223; GB 2400913 A GB 2004-3962 20040223; DE 10307814 A1 DE 2003-10307814 20030224; US

2004227516 A1 US 2004-785447 20040224; CN 1525191 A CN 2004-6000 20040224;
KR 2004076221 A KR 2004-12221 20040224

PRAI DE 2003-10307814 20030224

IC ICM A61B005-055; G01R033-38; G01R033-385; G01V003-00; H01F005-02
ICS H01F007-00; H01F041-04

AB JP2004255182 A UPAB: 20041019

NOVELTY - A winding board (W) has circular vortex (2) whose inner conductor lead (X) is arranged at the exterior of a support plate supporting the winding board.

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circular vortex 2

shallow groove 3

outer conductor lead 6

winding board W

inner conductor lead X

Dwg.1a/4

FS EPI GMPI

FA AB; GI

MC EPI: S01-E02A2; S01-E02A8A; S03-E07A; S03-E07C; S05-D02B1; V02-F01G;
V02-F03B

L1 ANSWER 2 OF 6 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 249746642 INPADOC ED 20041125 EW 200448 UP 20041203 UW 200449

TI Gradientenspulen und Verfahren zur Herstellung von Gradientenspulen fuer MRT-Systeme.

IN VOM ENDT, AXEL

INS VOM ENDT AXEL

INA DE

PA SIEMENS AG

PAS SIEMENS AG

PAA DE

TL German

DT Patent

PIT DEA1 DOCUMENT LAID OPEN (FIRST PUBLICATION)

PI DE 10307814 A1 20041125

AI DE 2003-10307814 A 20030224

PRAI DE 2003-10307814 A 20030224 (EDPR 20040422)

AB Die vorliegende Erfindung bezieht sich allgemein auf ein Verfahren zur Herstellung einer Gradientenspule wie sie in der Kernspintomographie (Synonym: Magnetresonanztomographie; MRT) eingesetzt werden. Dabei bezieht sich die vorliegende Erfindung insbesondere auf eine neue Technik zur Herstellung von Scheiben- bzw. Sattelspulen.

Die erfindungsgemaesse Gradientenspule weist eine auf einer ersten Flaeche zugeordnete spiralfoermige Spule (2) und eine innere (X bzw. Y) und eine aeussere Leiterzufuehrung (6) der Spule (2) auf,

wobei die innere Leiterzufuehrung (X bzw. Y) auf einer zweiten, zur

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ersten beabstandeten Flaeche angeordnet ist. Die erfindungsgemaesse Gradientenspule ist dadurch gekennzeichnet, dass die Spule (2) mit ihren Leiterzufuehrungen (X bzw. Y bzw. 6) aus einem durchgehenden einteiligen elektrischen Leiter besteht.

LEVEL 1

AN 249746642 INPADOC ED 20041125 EW 200448 UP 20041203 UW 200449
TI Gradientenspulen und Verfahren zur Herstellung von Gradientenspulen fuer MRT-Systeme.
IN VOM ENDT, AXEL
INS VOM ENDT AXEL
INA DE
PA SIEMENS AG
PAS SIEMENS AG
PAA DE
TL German
DT Patent
PIT DEA1 DOCUMENT LAID OPEN (FIRST PUBLICATION)
PI DE 10307814 A1 20041125
AI DE 2003-10307814 A 20030224
PRAI DE 2003-10307814 A 20030224 (EDPR 20040422)
ICM (7) G01R033-385
ICS (7) H01F041-04
EPC G01R33/385

L1 ANSWER 3 OF 6 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 249246359 INPADOC ED 20041125 EW 200448 UP 20041216 UW 200451
TI Gradient coil for MRT and method for making same.
IN ENDT AXEL VOM
INS ENDT AXEL VOM
INA GB
PA ENDT AXEL VOM
PAS ENDT AXEL VOM
PAA GB
TL English
DT Patent
PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)
PI US 2004227516 AA 20041118
AI US 2004-785447 A 20040224
PRAI DE 2003-10307814 A 20030224 (EDPR 20040422)
OSDW 2004-680242
AB In a method to produce a gradient coil for use in magnetic resonance tomography, suitable for producing planar coils, saddle coils. a spiral coil is arranged on a first surface with an inner conductor feed section and an outer conductor feed section of the coil, with the inner conductor feed arranged on a second surface separated from the first surface. The coil, together with its conductor feed sections, a continuous unitary electrical conductor. The inner conductor feed is arranged outside of the carrier plate.

LEVEL 1

AN 249246359 INPADOC ED 20041125 EW 200448 UP 20041216 UW 200451
TI Gradient coil for MRT and method for making same.
IN ENDT AXEL VOM
INS ENDT AXEL VOM

02/25/2005

10/785,447

INA GB
PA ENDT AXEL VOM
PAS ENDT AXEL VOM
PAA GB
TL English
DT Patent
PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)
PI US 2004227516 AA 20041118
AI US 2004-785447 A 20040224
PRAI DE 2003-10307814 A 20030224 (EDPR 20040422)
OSDW 2004-680242
ICM (7) G01V003-00
EPC G01R33/385
NCL 324318

L1 ANSWER 4 OF 6 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1
AN 245694837 INPADOC ED 20041028 EW 200444 UP 20050217 UW 200507
TI GRADIENT MAGNETIC FIELD COIL FOR MAGNETIC RESONANCE TOMOGRAPHY APPARATUS
AND ITS PRODUCTION METHOD.
IN ENDT AXEL VOM
INS ENDT AXEL VOM
PA SIEMENS AG
PAS SIEMENS AG
TL English
DT Patent
PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION
PI JP 2004255182 A2 20040916
AI JP 2004-45840 A 20040223
PRAI DE 2003-10307814 A 20030224 (EDPR 20040422)
OSDW 2004-680242

LEVEL 1
AN 245694837 INPADOC ED 20041028 EW 200444 UP 20050217 UW 200507
TI GRADIENT MAGNETIC FIELD COIL FOR MAGNETIC RESONANCE TOMOGRAPHY APPARATUS
AND ITS PRODUCTION METHOD.
IN ENDT AXEL VOM
INS ENDT AXEL VOM
PA SIEMENS AG
PAS SIEMENS AG
TL English
DT Patent
PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION
PI JP 2004255182 A2 20040916
AI JP 2004-45840 A 20040223
PRAI DE 2003-10307814 A 20030224 (EDPR 20040422)
OSDW 2004-680242
ICM (7) A61B005-055
ICS (7) G01R033-385
ICA (7) H01F005-00; (7) H01F005-04

L1 ANSWER 5 OF 6 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 2
AN 232120452 INPADOC ED 20041028 EW 200444 UP 20041203 UW 200449
TI Gradient Coils and Method of Manufacturing Gradient Coils for MRT

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Systems.

IN AXEL * VOM ENDT
INS VOM ENDT AXEL
INA GB
PA * SIEMENS AKTIENGESELLSCHAFT; * SIEMENS AKTIENGESELLSCHAFT
PAS SIEMENS AG
PAA DE
TL English
DT Patent
PIT GBA1 APPLICATION PUBLISHED
PI GB 2400913 A1 20041027
AI GB 2004-3962 A 20040223
PRAI DE 2003-10307814 A 20030224 (EDPR 20040422)

AB The present invention concerns, in general, a method of manufacturing a gradient coil such as is used in nuclear spin tomography (synonym: magnetic resonance tomography, MRT). The present invention concerns, in particular, a new technique for manufacturing disc or saddle coils. The gradient coil according to the invention has a spiral coil (2) which is arranged on a first surface, and an inner (X or Y) and an outer conductor lead-in (6) for the coil (2). The inner conductor lead-in (X or Y) is arranged on a second surface at a distance from the first. The coil with its conductor lead-ins (X or Y or 6) consists of a continuous, one-part electrical conductor. The gradient coil according to the invention is characterized in that the inner conductor lead-in (X) is arranged outside the support plate (T).

LEVEL 2

AN 232120452 INPADOC ED 20041028 EW 200444 UP 20041203 UW 200449
TI Gradient Coils and Method of Manufacturing Gradient Coils for MRT
Systems.

IN AXEL * VOM ENDT
INS VOM ENDT AXEL
INA GB
PA * SIEMENS AKTIENGESELLSCHAFT; * SIEMENS AKTIENGESELLSCHAFT
PAS SIEMENS AG
PAA DE
TL English
DT Patent
PIT GBA1 APPLICATION PUBLISHED
PI GB 2400913 A1 20041027
AI GB 2004-3962 A 20040223
PRAI DE 2003-10307814 A 20030224 (EDPR 20040422)
ICM (7) G01R033-385
EPC G01R33/385
NCL G1N NG38C G38C

L1 ANSWER 6 OF 6 JAPIO (C) 2005 JPO on STN

AN 2004-255182 JAPIO

TI GRADIENT MAGNETIC FIELD COIL FOR MAGNETIC RESONANCE TOMOGRAPHY APPARATUS
AND ITS PRODUCTION METHOD

IN ENDT AXEL VOM
PA SIEMENS AG
PI JP 2004255182 A 20040916 Heisei
AI JP 2004-45840 (JP2004045840 Heisei) 20040223
PRAI DE 2003-1030781420030224
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2004
AB PROBLEM TO BE SOLVED: To provide a gradient magnetic field coil for a

magnetic resonance tomography apparatus in which the structure of the gradient magnetic field coil is simplified and its production method. SOLUTION: A spiral coil (2) arranged in a first face and an inward conductor lead (X or Y) and an outward conductor lead (6) of the coil (2) are provided, and the inward conductor lead (X or Y) is arranged in a second face which is situated away from the primary aspect. In the gradient magnetic field coil for the magnetic resonance tomography device in which the coil consists of contiguous integrated conductors together with the conductor lead, the inward conductor lead (X) is arranged on the outside of a support plate (T).

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AN 2004-255182 JAPIO

TI GRADIENT MAGNETIC FIELD COIL FOR MAGNETIC RESONANCE TOMOGRAPHY APPARATUS AND ITS PRODUCTION METHOD

IN ENDT AXEL VOM

SIEMENS AG

PI JP 2004255182 A 20040916 Heisei

AI JP 2004-45840 (JP2004045840 Heisei) 20040223
DE 2003-1030781420030224

SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2004

IC ICM A61B005-055

ICS G01R033-385

ICA H01F005-00; H01F005-04

AB PROBLEM TO BE SOLVED: To provide a gradient magnetic field coil for a magnetic resonance tomography apparatus in which the structure of the gradient magnetic field coil is simplified and its production method.

SOLUTION: A spiral coil (2) arranged in a first face and an inward conductor lead (X or Y) and an outward conductor lead (6) of the coil (2) are provided, and the inward conductor lead (X or Y) is arranged in a second face which is situated away from the primary aspect. In the gradient magnetic field coil for the magnetic resonance tomography device in which the coil consists of contiguous integrated conductors together with the conductor lead, the inward conductor lead (X) is arranged on the outside of a support plate (T).

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